Amendments to the claims

- 1 (original). A method for manufacturing drawn biodegradable filament, comprising the steps of drawing original biodegradable filament to a draw ratio of 100 times or more by tension of 10 MPa or less per single filament according to heating with an infrared beam.
- 2 (original). A method for manufacturing drawn biodegradable filament according to claim 1, wherein said tension is tension provided by the own weight of the original biodegradable filament.
- 3 (original). A method for manufacturing drawn biodegradable filament according to claim 1, wherein said infrared beam is heated from plural directions within 4 mm in up and down axial direction of a filament at the center of a filament.
- 4 (original) A method for manufacturing drawn biodegradable filament according to claim 1, wherein said drawn biodegradable filament is heat treated by a heating zone provided subsequently.
- 5 (original). A method for manufacturing drawn biodegradable filament according to claim 4, wherein said heat treatment is conducted by a zone heat treatment method.
- 6 (original). A method for manufacturing drawn biodegradable filament according to claim 1, wherein said drawn biodegradable filament is further drawn.
- 7 (original). A method for manufacturing drawn biodegradable filament according to claim 6, wherein said further drawing is conducted by a zone drawing method.
- 8 (original). A method for manufacturing drawn biodegradable filament according to claim 1, wherein said original biodegradable filaments are drawn at the same time in the same beams delivering plural numbers simultaneously.
- 9 (original). A method for manufacturing non-woven fabrics consisting of drawn biodegradable filament according to claim 1, wherein said drawn biodegradable filament is accumulated on a running conveyor.

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10 (original). A drawing start-up method for drawn biodegradable filament according to claim 1, wherein said original biodegradable filament is drawn by the tension provided by the own weight and are drawn thereafter by predefined take-up speed in the manufacturing method for said drawn biodegradable filament

11 (original). A manufacturing apparatus for drawn biodegradable filament comprising; supply means of original biodegradable filament consisting of biodegradable filament, an infrared ray heating device formed of heating within a range of up-and-down 4 mm in an axial direction of a filament at the center of a original biodegradable filament by irradiating a infrared beam from plural directions against the delivered original biodegradable filament,

and means for controlling the heated original biodegradable filament to draw to 100 times or more by providing tension of 10 MPa or less.

12 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein said infrared beam is a laser beam radiated from a laser emitter.

13 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein said infrared beam emitter has mirrors to irradiate from plural directions to original filament reflecting the same beam.

14 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein said infrared beam emitter has plural light sources to irradiate to original filament from plural directions.

15 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 12, wherein said laser beam is a carbon dioxide gas laser having a power density of 10 W/cm² or more.

16 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein drawn biodegradable filament is formed to be heat treated providing a heating device having a heating zone in the manufacturing apparatus for said drawn biodegradable filament.

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- 17 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein a drawing device is further added to a manufacturing apparatus for said drawn biodegradable filament.
- 18 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein a guiding tool controlling the position of the filament is provided before said original biodegradable filament is heated with an infrared beam and has a position control device which can finely adjust the guiding position of the guiding tool.
- 19 (original). A manufacturing apparatus for non-woven fabrics consisting of drawn biodegradable filament according to claim 11, wherein a running conveyor is provided to a manufacturing apparatus for said drawn biodegradable filament and is formed to accumulate drawn biodegradable filament on the conveyor.
- 20 (original). A manufacturing apparatus for drawn biodegradable filament according to claim 11, wherein said controlling is formed to control wind-up speed and/or supply speed measuring a diameter of said drawn biodegradable filament.
- 21 (currently amended). A drawn biodegradable super micro-filament <u>made</u> according to <u>the method of</u> claim 1, wherein said drawn biodegradable filament have 60% or more of X-ray orientation degree and a diameter of the drawn filament is 12 µm or less.
- 22 (currently amended). A drawn biodegradable super micro-filament <u>made</u> according to <u>the method of</u> claim 1, wherein said drawn biodegradable filament consist of polylactic acid or polyglycolic acid, birefringence of the drawn filament is 0.015 or more and a diameter of the drawn filament is 12 µm or less.
- 23 (currently amended). A biodegradable non-woven fabric <u>made</u> according to <u>the method of</u> claim 1, wherein it consists of said drawn biodegradable filament.
- 24 (currently amended). A fiber product consisting of drawn biodegradable filament <u>made</u> according to <u>the method of</u> claim 1, wherein each of a fiber product group consisting of said

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drawn biodegradable filament is different in a filament diameter and is a product group of different biodegradable speed by difference in the filament diameters.

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